DOANE UNIVERSITY

SYLLABUS

Course Title	Business Statistics
Course Number	BUS 215 ONL
Number of Credits	3
Course Dates	5/25/20 - 7/25/20
Instructor	Dr. Tammie Lang
Email Address	tammie.lang@doane.edu
Office Hours/Availability	Can be available via Zoom as needed. Email me to schedule a virtual appointment.
Phone Number	402-580-1715 (call or text)
Textbook Information: (e.g. title, edition, publisher, ISBN)	Lind, D., Marchal, W., & Wathan, S. (2013). *Statistics for Business and Economics*. McGraw-Hill Irwin. New York, NY
Additional Course Materials	NA
Course Description	Course description - An introductory course in statistical procedures with applications to business. Topics include descriptive statistics, the binomial and normal distributions, sampling, hypothesis testing, estimation, correlations, contingency tables, one-way analysis of variance and linear regressions.
Course Learning Outcomes/Objectives	Upon completion of this class, students will be able to • CO 1) collect a data set, identify the sampling method used, and recognize potential bias;

	• CO 2) describe a dataset with tabular, graphical, and numerical methods; • CO 3) test various hypothesis and construct confidence intervals; • CO 4) scrutinize and interpret results and draw meaningful conclusions; and • CO 5) present your data and results in a way that is concise and visually appealing and provides information to the reader. Student learning objectives – 1. By the end of this course, students will be able to recognize and select appropriate basic statistical formulas for various situations. 2. By the end of this course, students will be able to compute statistical formulas to interpret data for decision making.
Course Prerequisites	Students must be of sophomore status or above, or with permission.
Instructional Details	This course utilizes an Andragogical approach. For those who are not familiar, andragogy (the study of adult learning) centers on the learner. In short, while there are lectures and videos, the emphasis is on consistently working through the course material, applying, analyzing, and synthesizing the data.
Technology Requirements	https://www.doane.edu/faq/minimum-computer-requirements

Course Schedule

TOPIC	MODULE OBJECTIVES	ASSESSMENTS	ACTIVITIES	INSTRUCTIONAL MATERIALS

Week/Mod 1	**1. Describe a dataset with tabular, graphical, and numerical methods (CO 2)** **2. Present your data and results in a way that is concise, visually appealing, and provides information to the reader (CO5)** **3. Define basic statistical terminology** **4. Identify data types and appropriate levels of analysis for each (CO1)** **5. Understand the components of the analysis process (CO1)**	**Exam and Excel exercises**	**Self Introduction** **Study guide** **Practice problems** **Journal** **Discussion board**	**Chapter 1 and 2**
Week/Mod 2	**1. Compute and accurately interpret measures of center (CO4) scrutinize and interpret results and draw meaningful conclusions (CO4)** **2. Present your data and results in a way that is concise, visually appealing, and provides information to the reader (CO5)** **3. Conduct and interpret measures of center for various data types**	**Exam and Excel exercises**	**Study guide** **Practice problems** **Journal** **Discussion board**	**Chapter 3 up to page 68**
Week/Mod 3	**1. Compute and accurately interpret measures of dispersion and association (CO4) scrutinize and interpret results and draw meaningful conclusions (CO4)** **2. present your data and results in a way that is concise, visually appealing, and provides information to the reader (CO5)** **3. Conduct and interpret measures of dispersion for various data types**	**Exam and Excel exercises**	**Study guide** **Practice problems** **Journal** **Discussion board**	**Chapter 3 page 68 to end** **Chapter 4 up to page 105**

Week/Mod 4	**1. Calculate various probabilities (CO4)** **2. Analyze various probability distributions and apply them accurately** **3. Present your data and results in a way that is concise, visually appealing, and provides information to the reader (CO5)**	**Exam and Excel exercises**	**Study guide** **Practice problems** **Journal** **Discussion board**	**Chapter 5,6 and 7**
Week/Mod 5	**1. Accurately calculate intervals for various data types (CO4)** **2. Scrutinize and interpret results and draw meaningful conclusions (CO4)** **3. Present your data and results in a way that is concise, visually appealing, and provides information to the reader (CO5)** **4. Conduct and interpret confidence intervals for various data types**	**Exam and Excel exercises**	**Study guide** **Practice problems** **Journal** **Discussion board**	**Chapter 8 and 9**
Week/Mod 6	**1. Test various hypothesis (CO3)** **2. Scrutinize and interpret results and draw meaningful conclusions (CO4)** **3. Present your data and results in a way that is concise, visually appealing, and provides information to the reader (CO5)** **4. Conduct and interpret hypothesis tests for various data types**	**Exam and Excel exercises**	**Study guide** **Practice problems** **Journal** **Discussion board**	**Chapter 10 and 11**

Week/Mod 7	**1. Conduct tests of correlation (CO4)** **2. Scrutinize and interpret results and draw meaningful conclusions (CO4)** **3. Present your data and results in a way that is concise, visually appealing, and provides information to the reader (CO5)** **4. Conduct and interpret correlations for various data types**	**Exam and Excel exercises**	**Study guide** **Practice problems** **Journal** **Discussion board**	**Chapter 4 from page 105 to end Chapter 13 up to page 389**
Week/Mod 8	**1. Collect a data set, identify the sampling method used, and recognize potential bias (CO1)** **2. Describe a dataset with tabular, graphical, and numerical methods (CO2)** **3. Test various hypothesis and construct confidence intervals** **4. Scrutinize and interpret results and draw meaningful conclusions (CO4)** **5. Present your data and results in a way that is concise, visually appealing, and provides information to the reader (CO5)**	**Final Project**	**Journal** **Discussion Board**	**None**

Grading Assessments

Type of Assessment	Points	Total possible points
Self Introduction		
Study Guide	10 X 8	80

Practice Problems	10 X 7	70
Journal	20 X 8	160
Discussion Boards	40 X 8	320
Exams	20 X 7	140
Exam Exercise	20* X 7	140
Final Project	100	100
Total		1010

*Sometimes the Excel exercises and the exam are combined

Online Course

This is an online course and therefore there will not be any face-to-face class sessions. All assignments and course interactions will utilize internet technologies.

Communicating with the Instructor

This course uses a “three before me” policy in regards to student to faculty communications. When questions arise during the course of this class, please remember to check these three sources for an answer before asking me to reply to your individual questions:

1. Course syllabus
2. Announcements in Blackboard
3. The “Question Center” discussion board

This policy will help you in potentially identifying answers before I can get back to you and it also helps your instructor from answering similar questions or concerns multiple times.

If you cannot find an answer to your question, please first post your question to the “Question Center” discussion board. Here your question can be answered to the benefit of all students by either your fellow students who know the answer to your question or the instructor. You are encouraged to answer questions from other students in the discussion forum when you know the answer to a question in order to help provide timely assistance.

If you have questions of a personal nature such as relating a personal emergency, questioning a grade on an assignment, or something else that needs to be communicated privately, contact

me via email or phone. My preference is that you will try to email me first. Please allow 24 hours for me to respond to emails Monday-Friday and 48 hours on the weekend.

If you have a question about the technology being used in the course, please contact the Doane University Help Desk for assistance.

Phone: 402-826-8411

Email: helpdesk@doane.edu

Web: http://www.doane.edu

Computer Requirements

Minimum computer requirements for the successful use of Blackboard: http://www.doane.edu/about-doane/offices/its/help-and-support#min_requirements

Minimum computer requirements for success in this course:

- Reliable computer and internet connection
- A web browser (Chrome or Mozilla Firefox)
- Adobe Acrobat Reader (free)
- Adobe Flash Player (free)
- Word processing software—Microsoft Word or Google Docs
- Webcam and mic

You are responsible for having a reliable computer and internet connection throughout the course.

Email and Internet

You must have an active Doane University e-mail account and access to the Internet. *All instructor correspondence will be sent to your Doane* University *e-mail account.* Please plan on checking your Doane Gmail account regularly for course related messages.

This course uses Blackboard for the facilitation of communications between faculty and students, submission of assignments, and posting of grades. The Blackboard Course Site can be accessed at http://bb2.doane.edu

Submitting Assignments

All assignments, unless otherwise announced by the instructor, MUST be submitted via Blackboard. Each assignment will have a designated place to submit the assignment.

Campus Network or Blackboard Outage

When access to Blackboard is not available for an extended period of time (greater than one entire evening - 6pm till 11pm) you can reasonably expect that the due date for assignments will be changed to the next day (assignment still due by midnight).

Grade Scale

A+ = 97-100% A = 93-96% A- = 90-92% B+ = 87-89% B = 84-86% B- = 80-83%
C+ = 77-79% C = 74-76% C- = 70-73% D+ = 67-69% D = 64-66% D- = 60-63%
F= 59% or below

Participation Policy	A student is expected to be prompt and regularly attend on-ground classes in their entirety. Regular engagement is expected for on-line courses. Participation in class discussions is an integral part of your grade. (Faculty to insert any additional class participation; see resource page for ideas.)
Study Time	Expectation of the amount of time the course requires students to spend preparing and completing assignments. Typically, students could expect to spend approximately 12 hours a week preparing for and actively participating in this 8-week 3 credit hour course. This actual time for study varies depending on students' backgrounds.
Late Work	(Include expectations regarding late work; please see attachment for examples.)
Submitting Assignments	(Include expectations regarding students' submission of assignments, for example, in class or in Blackboard.)
Communication Policy including Assignment Feedback	(State your policy on timeliness of communicating with students and length of time needed before assignments will be graded, e.g. 48 hours.)

Academic Integrity Policy	Doane University expects and requires all its students to act with honesty and integrity and respect the rights of others in carrying out all academic assignments. Academic dishonesty, the act of knowingly and willingly attempting or assisting others to gain academic success by dishonest means, is defined in four categories: 1. Cheating - "Intentionally using or attempting to use unauthorized information or study aids in an academic exercise." 2. Fabrication - "Intentional and unauthorized falsification of invention or any information or citation in an academic exercise." 3. Facilitating Academic Dishonesty - "Intentionally or knowingly helping or attempting to help another to commit an act of dishonesty," and/or coercing others to do the same. 4. Plagiarism - "Intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise," in both oral and written projects. *Gehring, D., Nuss, E.M., & Pavela, G. (1986). Issues and perspectives on academic integrity. Columbus, OH: National Association of Student Personnel Administrators* For more information on the sanctions for academic dishonesty, please visit the website: https://catalog.doane.edu/content.php?catoid=16&navoid=1333
Academic Support	Please contact academicsupport@doane.edu https://www.doane.edu/graduate-and-adult/academic-support
Disability Services	https://www.doane.edu/disability-services Doane University supports reasonable accommodations to allow participation by individuals with disabilities. Any request for accommodation must be initiated by the student as soon as possible. Each student receiving accommodations is responsible for his or her educational and personal needs while enrolled at Doane University.
Military Services	https://www.doane.edu/graduate-and-adult/military
Anti-Harassment Policy	http://catalog.doane.edu/content.php?catoid=5&navoid=452

Grade Appeal Process	http://catalog.doane.edu/content.php?catoid=5&navoid=238
Credit Hour Definition	Doane University follows the federal guideline defining a credit hour as one hour (50 minutes) of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks (one semester), or the equivalent amount of work over a different time period (e.g., an 8-week term). This definition applies to courses regardless of delivery format, and thus includes in-person, online, and hybrid courses (combination of in-person and online). It also applies to internship, laboratory, performance, practicum, research, student teaching, and studio courses, among other contexts.
Syllabus Changes	Circumstances may occur which require adjustments to the syllabus. Changes will be made public at the earliest possible time.
Doane Syllabus Addendum	Each student is responsible for being aware of the policies, resources, and expectations as specified in the Doane Syllabus Addendum located at https://www.doane.edu/Syllabus.